

**ABSTRACT**

A method for producing a male-sterile plant which shows normal morphology comparable to the intact plant except for being male-sterile. More specifically, a method for producing a male-sterile plant by ligating a first promoter to the upstream of a barnase gene, wherein said first promoter comprises a part of the nucleotide sequence of the promoter represented by SEQ ID NO:6, ligating a second promoter, wherein the second promoter is the same or different from the first promoter, to the upstream of a Barstar gene, wherein the first promoter and the second promoter cause anther-specific expression, and transferring said genes into the a plant genome to thereby produce a substantially male-sterile plant.